ORPG BUILD 4 DRAFT RPG/CLASS 1 ICD CHANGES 12/17/02 mji

MRU will be product code 139

Elevation angle field of the Product Request Message will be as follows:

Table IIa. Product Dependent Halfword Definitions for Product Request Message

Product Name	Msg Code (s)	Half-Word #	Content	Units (INT*2)	Range	Accuracy/ Precision
Base Products, ITWS Digital Base Velocity, Clutter Likelihood (Reflectivity and Doppler), Meso Rapid Update	16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 93, 94, 99, 132, 133, 139	22	Elevation Angle	Degrees	-1.0 to 45.0	.1, Note 1,9

Note 9: Bits 0-12 (bit 0 is LSB) of halfword 22 represents a scaled elevation angle or an unscaled elevation cut number. For elevation angles ≥ 0, the elevation angle is denoted degrees*10. For elevation angles < 0, the angle is denoted 3600 + degrees*10. For elevation cut number, the value ranges from 1 to 20.

Bits 13-15 have special meaning. If bits 13-15 are not set, bits 0-12 specifies the specific elevation angle that is being requested. If bit 14 is set (bits 15, 13, and 0-12 are not set) then all elevation angles of the volume coverage pattern are requested. If bit 13 is set (bits 15 and 14 not set), then all elevation angles at or below the angle specified by bits 0-12 are requested. If bit 13 and 14 are set (bit 15 is not set), then all elevation angles at or below the elevation cut number specified by bits 0-12 are requested. Bit 15 is reserved for future use and should never be set.

If the elevation parameter specifies multiple elevations, each elevation counts against the maximum product count specified for the requestor (currently set to 90 at the RPG). This check is done when the routine product request message (RPS) is received at the RPG. If the RPG receives an RPS list containing more than this limit, requests at the end of the product request message are rejected. For each rejected product request, a Request Response message is sent to the user for notification.

Add to Figure 3-14 in document 2620001, RPG to Class 1 ICD:

	MSB	HALFWORD	LSB
		PACKET CODE (=20)	
POINT FEATURE		LENGTH OF BLOCK (BYTES)	
REPEAT FOR		I POSITION	
EACH SYMBOL		J POSITION	
		POINT FEATURE TYPE	
		POINT FEATURE ATTRIBUTE	

FIELDNAME	TYPE	UNITS	RANGE	PRECISION/ ACCURACY	REMARKS
Packet Code	INT*2	N/A	20	N/A	Packet Type (Note 1)
Length of Block	INT*2	Bytes	8 to 32760	1	Number of bytes in block not including self or packet code
I Position	INT*2	Km/4	-2048 to +2047	1	I starting coordinate
J Position	INT*2	Km/4	-2048 to +2047	1	J starting coordinate
Point Feature Type	INT*2	N/A	1 to 4	1	1 = mesocyclone (extrapolated) 2 = 3-D correlated shear (extrapolated) 3 = mesocyclone (persistent, new, or increasing) 4 = 3-D correlated shear (persistent, increasing, or new)
Point Feature Attribute	INT*2	Type dependent, see remarks.	Type dependent, see remarks.	Type dependent, see remarks.	For feature types 1-4, radius in km/4